

**To:** Ann Codrington/DC/USEPA/US@EPA[]  
**From:** "EUCI Events" <events@eucievents.com>  
**Sent:** Mon 8/13/2012 2:43:41 PM  
**Subject:** Introduction to Hydraulic Fracturing and Introduction to NGL Contracts, Early Bird Rates End Friday  
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#### In-Depth Introduction to Hydraulic Fracturing

#### Introduction to Natural Gas Liquids (NGLs) Contracts

August 27-28, 2012 ::  
 Pittsburgh, PA August 28, 2012 ::  
 Pittsburgh, PA

The early bird rates end this Friday, August 17  
 Be sure to register right away for these great programs!

#### Overviews

#### In-Depth Introduction to Hydraulic Fracturing

Hydraulic fracturing is a very common technique in oil and gas drilling. Although the idea is simple to understand, the terminology and processes are more complex. Whether you have a financial or engineering background, this course will be beneficial. The course is designed to give a broad overview of how fracturing works, the terminology used, and the processes that are incorporated into hydraulic fracturing. Attendees will walk away from this course with the ability to identify the processes of hydraulic fracturing and articulate the various challenges and issues associated with this drilling technique.

#### Introduction to Natural Gas Liquids (NGLs) Contracts

This course will give attendees an extensive overview of how agreements for the production, sale, processing, storage, and transportation of natural gas and natural gas liquids ("NGL"), and related agreements are conceived, negotiated, structured, and reduced to enforceable form. This course will address the fundamental terms and conditions of each form of NGL contract and discuss how those terms interrelate internally. How the different contracts for various functions interrelate with one another will be discussed. Illustrative case studies, describing various factual scenarios that have been, and may reasonably be expected to be encountered in the conduct of NGL operations in the future, will be presented and discussed at length with attendees. Attendees will walk away with knowledge in NGL contract regulations, litigation, dispute resolutions, and the potential issues facing NGL operations from a contractual standpoint.

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 Agenda topics include  
 Geology

## Classification of rocks

Formation

Porosity and permeability

Geological mapping

Creation of oil and gas

## Drilling

What it takes to drill

Differences in drilling techniques: cable vs. rotary vs. fracturing

Vertical and horizontal

Casing in drilling

Problems with drilling

Well completion: well stimulation

## Fracturing

Action of fracturing : frac fluid, sand, proppants, flowback

Frac design

Shale plays = differences in fracturing

Onshore vs. offshore fracturing

Post-treatment reports

Fracturing horizontal wells

## Truths and Myths

Groundwater contamination

Water used for fracturing

Emissions stemming from fracturing

EPA's Pavillion, Wyoming, report

Current issues facing fracturing

## Future of Hydraulic Fracturing

Regulations and transparency

"Super fracturing": How deep? How far?

Technology developments

## Full agenda

Overview of NGL Contracts

Structure of contracts

Discussion of terms

Jurisdiction - federal, state and local

## Functions of NGL Contracts

Gathering, processing, construction, operating, fractioning, storing, marketing and transporting

## Regulatory Issues

Federal, state and local governmental issues

Common, past and future issues relating to NGL operations

Mitigating and managing issues

## Environmental Issues

Federal, state and local issues

Mitigating and managing issues

## Litigation and Dispute Resolution

Common litigation and disputes

Litigation matters and dispute resolution procedures

How courts handle matters

## Future of NGL Contracts

Potential issues in NGLs and NGL contracts

Potential regulations and matters facing NGLs

## Full agenda

Instructed by

David K. Dillon

David K. Dillon is the principal of David K. Dillon PE LLC, a petroleum engineering consulting firm located in Centennial, Colorado. He is a licensed professional engineer in Colorado and Wyoming, and he has been a member of the Society of Petroleum Engineers for more than 35 years. Before starting his career as a consulting engineer, Mr. Dillon worked in the private oil and gas industry for 20 years as a drilling engineer, a production engineer, and a reservoir engineer. He has extensive experience in optimizing production from existing fields, secondary recovery operations, and the calculation of reservoir reserves.

Instructor

Robert Ballentine, LLM, Partner, Burleson LLP

Philip M. Kinkaid, Partner, Burleson LLP

Ivan Devoren, Partner, Burleson LLP

Instructors

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